



### technical data

|                                     |   |
|-------------------------------------|---|
| measuring range                     | -30°C...180°C   |
| outer diameter tube D               | 6mm   |
| material (process-intrusive)        | V2A/V4A   |
| connection wire (cable-jacket/wire) | silicone/silicone 180°C, 4x0,35mm <sup>2</sup> , CuSn |
| response time                       | T05=6sec/ T09=18sec *1                                |
| protection category                 | IP67 according to DIN EN 60529                        |
| protection class                    | III   |
| insulation resistance               | 500V  |
| tensile strain (cable to sleeve)    | max 20N   |
| colour of cable                     | grey  |

### ambient conditions

|                      |                          |
|----------------------|--------------------------|
| application area     | liquid and gaseous media |
| storage temperature  | -30°C...70°C             |
| process pressure     | max 20bar *2             |
| dew-point-resistance | no                       |

### Miscellaneous

|           |  |
|-----------|--|
| labelling | by engraving on sleeve, "batch-no+WW/YY" |
|-----------|--|

## Type key configuration

| Pos.: | Physical characteristics   | Key | Characteristic                                       |
|-------|--|-----|--|
| 1     | length of sleeve HL  | A0  | 45mm   |
|       |  | A1  | 35mm   |
|       |  | A2  | 60mm   |
|       |  | A3  | 100mm  |
| 2     | sensorelement-type   | B0  | Pt100, tolerance class B according to DIN EN 60751   |
|       |  | B1  | Pt100, tolerance class A according to DIN EN 60751   |
|       |  | B2  | Pt100, tolerance class AA according to DIN EN 60751  |
|       |  | B3  | Pt500, tolerance class B according to DIN EN 60751   |
|       |  | B4  | Pt500, tolerance class A according to DIN EN 60751   |
|       |  | B5  | Pt500, tolerance class AA according to DIN EN 60751  |
|       |  | B6  | Pt1000, tolerance class B according to DIN EN 60751  |
|       |  | B7  | Pt1000, tolerance class A according to DIN EN 60751  |
|       |  | B8  | Pt1000, tolerance class AA according to DIN EN 60751 |
|       |  | B9  | NTC 10K@25°C B25/85=3977 B±1%/R±1% *3                |
|       |  | B10 | NTC 5K@25°C B25/85=3977 B±1%/R±1% *4                 |
|       |  | B11 | NTC 10K@25°C B25/85=3435 B±1%/R±1% *4                |
|       |  | B12 | NTC 2,2K@25°C B25/85=3552 B±1%/R±1% *4               |
|       |  | B13 | KTY81-210  |
|       |  | B14 | KTY84-130  |
|       |  | B15 | KTY81-121  |
|       |  | B16 | KTY81-110  |
|       |  | B17 | NI1000 tolerance class B, TK6180                     |
|       |  | B18 | NTC 20K@25°C B25/85=3970 B±1%/R±1% *5                |
|       |  | B19 | NI100 tolerance class B, TK6180                      |
| B20   | NTC 10K@25°C B25/85=3977 B±1%/R±1%, valid from 50°C, <50°C is B2%/R2% *5 |     |  |
| 3     | cable length KL  | C0  | 1000mm-50+100 *6                                     |
|       |  | C1  | 1500mm-50+100 *6                                     |
|       |  | C2  | 2000mm-50+100 *6                                     |
|       |  | C3  | 2500mm-50+100 *6                                     |
|       |  | C4  | 5000mm -100+200 *6                                   |

| Pos.: | Physical characteristics | Key | Characteristic                                 |
|-------|--------------------------|-----|--|
| 4     | sensor connection        | D0  | wire end sleeves grey 0,75mm <sup>2</sup>      |
|       |                          | D1  | wire end sleeves orange 0,5mm <sup>2</sup>     |
|       |                          | D2  | wire ends tinned                               |
| 5     | bend-protection spring   | E0  | no   |
|       |                          | E1  | bend-protection spring L=55mm, material 1.4310 |

**Existing configurations**

| Type | Order number | Item number | Old order number |
|------|--------------|-------------|------------------|
|------|--------------|-------------|------------------|

**Remarks**

\*1 measured in water 70°C, 0,04m/sec

\*2 using a suitable compression gland . The user has to check the combination of union and sensor. A shearing off of the sleeve material may not occur. The figure is based on values determined in the laboratory at room temperature and static pressure. Extended specification on request.

\*3 !!! CAUTION: This sensor element can only be loaded up to 125°C (short-term 150°C). The maximum temperature of the sensor is affected by this restriction!!!

\*4 !!! CAUTION: This sensor element can only be loaded up to 125°C (short-term 150°C). The maximum temperature of the sensor is affected by this restriction!!!

\*5 NTC glas encapsulated, Tmax=250°C

\*6 stripping length AL=40mm +10-10

**Revision**

| Version    | Effective from      | Comment             |
|------------|---------------------|---------------------|
| <u>1.0</u> | 10.07.2014 11:20:49 | Typenblatt angelegt |